

5003-01D8

IN THE SPECIFICATION:

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Please amend the paragraph beginning at line 21 of page 5 to read as follows:

--FIG. 25A, which is shown expanded in FIG. 25B, shows a respective top view and top expanded view of another embodiment of an optical waveguide device including a gate electrode ~~configured~~ configuration that may be configured as an Echelle diffraction grating or an Echelle lens grating;--

Please amend the paragraph beginning at line 25 of page 5 to read as follows:

--FIG. 26 shows a top cross sectional view taken within the waveguide of the optical waveguide device illustrating the diffraction of optical paths as light passes through the actuated Echelle diffraction grating shown in FIG. 25A, wherein the projected outline of the region of changeable propagation constant from the Echelle diffraction grating is shown;--

Please amend the paragraph beginning at line 6 of page 6 to read as follows:

--FIG. 28 shows a top cross sectional view taken through the waveguide of the optical waveguide device illustrating the focusing of multiple optical paths as light passes through the actuated Echelle lens grating shown in FIG. 25A, illustrating the region of changeable propagation constant resulting from the Echelle lens grating;--

Please amend the paragraph beginning at line 12 of page 6 to read as follows:

--FIG. 30B shows a top view of one embodiment of an optical waveguide device that includes a grating, and is configured to act as an optical lens;--

Please amend the paragraph beginning at line 14 of page 6 to read as follows:

--FIG. 30A shows a top cross sectional view taken through the waveguide of the optical waveguide device shown in FIG. 30B illustrating light passing through the waveguide;--

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